

ABSTRACT

5 A method for stretch breaking fibers to produce a staple yarn and operating a
staple fiber spinning machine that enables the production of a plurality of products of
lot size smaller than a large denier tow product. The process includes at least two
break zones and a consolidation zone downstream from a second break zone to form a
10 staple yarn. The filaments are broken in a second break zone downstream from the
first break zone by increasing the speed of the fiber fed into the process. The yarn
includes discontinuous and, optionally, continuous filaments.